International Journal of Fracture

CONTENTS OF VOLUME 50 (1991)

Vol. 50, No. 1, 1 July 1991

Failure of hierarchical distributions of fibre bundles. I	W.I. NEWMAN and A.M. GABRIELOV	1
J_{II} fracture testing of a plastically deforming material	L. BANKS-SILLS and D. SHERMAN	15
Finite element visualization of fatigue crack closure in plane stress and plane strain	R.C. McCLUNG, B.H. THACKER and S. ROY	27
A tensile stress criterion for cleavage in precracked, notched and smooth bars	X.X. XU, Q.C. CAI and Y. SU	51
High speed crack propagation in bi-phase materials: an experimental study	N. CUDRÉ-MAUROUX, H.H. KAUSCH, W.J. CANTWELL and A.C. ROULIN-MOLONEY	67

Vol. 50, No. 2, 15 July 1991

A continuum damage mechanics approach to crack tip shielding in brittle solids	C.L. CHOW and T.J. LU	79
Creep crack growth in joints of a thermoplastic	S.F. POPELAR, C.H. POPELAR and V.H. KENNER	115
A *GLOBAL/LOCAL* approach to lengthwise cracked beams: static analysis	T.N. FARRIS and J.F. DOYLE	131
Kinematics of damage zone accompanying curved crack	W.-L. HUANG, B. KUNIN and A. CHUDNOVSKY	143
Evolution of cracks in thin foils and massive crystals of iridium	P. PANFILOV, G. BATURIN and A. YERMAKOV	153

Vol. 50, No. 3, 1 August

Interaction between a crack and a free or welded boundary in media with arbitrary anisotropy	C. ATKINSON and D.A. EFTAXIOPOULOS	159
Singular behaviour at the end of a crack yielding on inclined slip-planes	M. TOYA, C. YATOMI and K. KIRIOKA	183
Modeling of fiber toughening in cementitious materials using an *R*-curve approach	B. MOBASHER, C. OUYANG and S.P. SHAH	199
Three-dimensional surface singularity of an interface crack	R.S. BARSOUM and TZI-KANG CHEN	221

Vol. 50, No. 4, 15 August 1991

Green's functions for dislocations in bonded strips and related crack problems	R. BALLARINI and H.A. LUO	239
Boundary element analysis of cracks at a fastener hole in an anisotropic sheet	M. KAMEL and B.M. LIAW	263
Near-tip behavior of deflected creep cracks	K.S. CHAN, R.A. PAGE and D.L. DAVIDSON	281
On the directional stability of wedging	S. MELIN	293
A model of continuum damage mechanics for fatigue failure	C.L. CHOW and Y. WEI	301

AUTHOR INDEX, VOL. 50 (1991)

Atkinson, C., 159
Ballarini, R., 239
Banks-Sills, L., 15
Barsoum, R.S., 221
Baturin, G., 153
Cai, Q.C., 51
Cantwell, W.J., 67
Chan, K.S., 281
Chen Tzi-Kang, 221
Chow, C.L., 79, 301
Chudnovsky, A., 143
Cudré-Mauroux, N., 67
Davidson, D.L., 281
Doyle, J.F., 131
Eftaxiopoulos, D.A., 159
Farris, T.N., 131
Gabrielov, A.M., 1
Huang, W.-L., 143
Kamel, M., 263
Kausch, H.H., 67
Kenner, V.H., 115
Kirioka, M., 183
Kunin, B., 143
Liaw, B.M., 263
Lu, T.J., 79
Luo, H.A., 239
McClung, R.C., 27
Melin, S., 293
Mobasher, B., 199
Newman, W.I., 1
Ouyang, C., 199
Page, R.A., 281
Panfilov, P., 153
Popelar, C.H., 115
Popelar, S.F., 115
Roulin-Moloney, A.C., 67
Roy, S., 27
Shah, S.P., 199
Sherman, D., 15
Su, Y., 51
Thacker, B.H., 27
Toya, M., 183
Wei, Y., 301
Xu, X.X., 51
Yatomi, C., 183
Yermakov, A., 153

International Journal of Fracture

CONTENTS OF VOLUME 50 (1991)

Vol. 50, No. 1, 1 July 1991

Meetings calendar		R2
Numerical evaluation of finite-part singular integrals in crack theory (the new method)	J.J. GOLECKI	R3
The numerical variational principle of structural analysis for elastoplastic creep damage problems	PAN ZENG	R9

Vol. 50, No. 2, 15 July 1991

Meetings calendar		R16
Relationship between micro and macro fracture toughness	B. STRNADEL	R17
Large deformation near the tip of a transverse crack in bimaterial infinite sheet	HAO TIAN-HU	R21
A study of the rules of the initiation of notched fatigue cracks under two level loading	LIU BING JI	R23

Vol. 50, No. 3, 1 August 1991

Meetings calendar		R32
Developable surfaces in elastoplastic fracture mechanics	D.J. UNGER	R33
A note on the asymptotic stress field of a non-uniformly propagating dynamic crack	A.J. ROSAKIS, CHENG LIU and L.B. FREUND	R39
Corrigendum		R47

Vol. 50, No. 4, 15 August 1991

Meetings calendar		R50
Calculation of energy release rates for interface cracks between dissimilar linear elastic isotropic materials	K.P. HERRMANN and A. NOE	R51
The split of a cracked brittle elastic body under arbitrary load	HAO TIAN-HU	R59
Compliance and stability factors of an edge-cracked three-point-bend round bar specimen	WANG QIZHI and XIAN XUEFU	R61

AUTHOR INDEX, VOL. 50 (1991)

Freund, L.B., R39
Golecki, J.J., R3
Hao Tian-Hu, R21, R59
Herrmann, K.P., R51
Liu Bing Ji, R23
Liu Cheng, R39
Noe, A., R51
Rosakis, A.J., R39
Strnadel, B., R17
Unger, D.J., R33
Wang Qizhi, R61
Xian Xuefu, R61
Zeng, P., R9